			PCT/JP	203/00304	
	SIFICATION OF SUBJECT MATTER C1 ⁷ H01Q1/52				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01Q1/52, G06K17/00, H01F17/04, H01Q1/24, H01Q7/00, H04B5/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003 Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			···	
Category*	Citation of document, with indication, where ap	ppropriate, of the releva	int passages	Relevant to claim No.	
X Y A	JP 09-284038 A (NHK Spring 0 31 October, 1997 (31.10.97), Full text; all drawings (Family: none)	Co., Ltd.),		1,7,8,16, 19-21 9-15,17,18 3	
х	JP 11-332631 A (Mitsubishi M 07 December, 1999 (07.12.99) Full text; all drawings (Family: none)		p.),	2,4	
х	JP 10-107531 A (Toshiba Corp 24 April, 1998 (24.04.98), Full text; Fig. 12 (Family: none)			5,6	
X. Further documents are listed in the continuation of Box C. See patent family annex.					
*Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "E" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date of priority date and not in conflict with the application but cited understand the principle or theory underlying the invention document of particular relevance; the claimed invention can document of par			e application but cited to erlying the invention cannot be claimed invention cannot be ted to involve an inventive claimed invention cannot be when the document is documents, such skilled in the art amily		
	pril, 2003 (03.04.03)	Date of mailing of the international search report 15 April, 2003 (15.04.03)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			

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Internal application No.
PCT/JP03/00364

C (Continuation Category*	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*		
1	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-056847 A (Mitsubishi Materials Corp.), 27 February, 2001 (27.02.01), Page 3, right column, lines 1 to 25; all drawings (Family: none)	9-16
Y	EP 0986037 A (Mitsubishi Materials Corp.), 15 March, 2000 (15.03.00), Full text; Fig. 5 a JP 11-339143 A Full text; Fig. 5 a WO 99/49437 Al a US 6285284 B1	17,18
A	JP 10-162260 A (Mitsubishi Materials Corp.), 19 June, 1998 (19.06.98), Full text; all drawings (Family: none)	11-13
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